

REM-EMIESS23G928ADK-01Av1

This report cancels and replaces the test report N° **REM-EMIESS23G928ADK-01Av0**

MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:

Novaterm® IGS 921 MHz

FCC ID: 2BEZD-NIGSV04

Company:

BERKEM DEVELOPPEMENT

Distribution: Mr BOUTIN

(Company: BERKEM DEVELOPPEMENT)

Number of pages: 5

Ed.	Date	Modified Page(s)	Technical Verification and Quality Approval	
			Name and Function	Visa
1	3-Mar-25	1, 2, 3, 4	M. DUMESNIL, Radio Laboratory Manager	

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DESIGNATION OF PRODUCT: *Novaterm® IGS 921 MHz*

Serial number (S/N): 22-2FF-223

Reference / model (P/N): NIGS.921.1.5.24

Firmware version: 0.0.0

MANUFACTURER: *BERKEM DEVELOPPEMENT*

COMPANY CERTIFYING THE PRODUCT:

Company: BERKEM DEVELOPPEMENT

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BLANQUEFORT
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RESPONSIBLE: Mr BOUTIN

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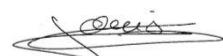
Person present during the tests: Mr KAMAL Ibrahim – (The first day)

DATES OF TEST: From 9-Jan-24 to 10-Jan-24

TESTING LOCATION: EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE
FCC Accredited under US-EU MRA Designation Number: FR0009
Test Firm Registration Number: 873677

TESTED BY: S. LOUIS

VISA:



WRITTEN BY: S. LOUIS

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REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	29-Jan-24	/	Creation
1	03-Mar-25	1, 2, 3, 4	Update following a change in the product's marketing name

1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **Novaterm® IGS 921 MHz**, in accordance with normative reference.

The equipment under test integrates:

- SRD Monofrequency transceiver operational in the band (902MHz – 928MHz)

2. PRODUCT DESCRIPTION

Class: B

Utilization: Residential

Antenna type and gain: 0.01 dBi / integral antenna

Operating frequency range: From 902 MHz to 928 MHz

Frequency tested: 921MHz

Number of channels: 1

Channel spacing: Not concerned

Modulation: GFSK2

Power source: 3Vdc Lithium battery (CR2477X-HE / CR2477X-HO)

Power level, frequency range and channels characteristics are not user adjustable.
The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.
They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2024)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

4. RF EXPOSURE

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, paragraph 1.4.2 :

Maximum Permissive Exemption according paragraph 1.1310(d)(2) of CFR 47 FCC Part 15

Maximum measured power = 90.1 dB μ V/m = 0.003334W at 921 MHz

with $P = (E \times d)^2 / (30 \times G_p)$ with $d = 10$ m and $G_p = 1.02$

$$PSD = EIRP / (4 \times \pi \times R^2)$$

$$\Rightarrow 3.334 / (4 \times \pi \times (20 \text{ cm})^2) = 0.000663 \text{ mW/cm}^2 \text{ (limit} = 0.614 \text{ mW/cm}^2\text{)}$$

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.